

1 / 3 4

SEQUENCE LISTING

<110> Oncotherapy Science, Inc.

The University of Tokyo

<120> Method of Diagnosing Breast Cancer

<130> ONC-A0306P1

<160> 34

<170> PatentIn version 3.1

<210> 1

<211> 928

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (127).. (720)

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gggatc atg cag aga gct tca cgt ctg aag aga gag ctg cac atg tta 168

2 / 3 4

Met Gln Arg Ala Ser Arg Leu Lys Arg Glu Leu His Met Leu

1

5

10

gcc aca gag cca ccc cca ggc atc aca tgt tgg caa gat aaa gac caa 216

Ala Thr Glu Pro Pro Pro Gly Ile Thr Cys Trp Gln Asp Lys Asp Gln

15

20

25

30

atg gat gac ctg cga gct caa ata tta ggt gga gcc aac aca cct tat 264

Met Asp Asp Leu Arg Ala Gln Ile Leu Gly Gly Ala Asn Thr Pro Tyr

35

40

45

gag aaa ggt gtt ttt aag cta gaa gtt atc att cct gag agg tac cca 312

Glu Lys Gly Val Phe Lys Leu Glu Val Ile Ile Pro Glu Arg Tyr Pro

50

55

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ttt gaa cct cct cag atc cga ttt ctc act cca att tat cat cca aac 360

Phe Glu Pro Pro Gln Ile Arg Phe Leu Thr Pro Ile Tyr His Pro Asn

65

70

75

att gat tct gct gga agg att tgt ctg gat gtt ctc aaa ttg cca cca 408

Ile Asp Ser Ala Gly Arg Ile Cys Leu Asp Val Leu Lys Leu Pro Pro

80

85

90

aaa ggt gct tgg aga cca tcc ctc aac atc gca act gtg ttg acc tct 456

Lys Gly Ala Trp Arg Pro Ser Leu Asn Ile Ala Thr Val Leu Thr Ser

95

100

105

110

3 / 3 4

att cag ctg ctc atg tca gaa ccc aac cct gat gac ccg ctc atg gct 504

Ile Gln Leu Leu Met Ser Glu Pro Asn Pro Asp Asp Pro Leu Met Ala

115

120

125

gac ata tcc tca gaa ttt aaa tat aat aag cca gcc ttc ctc aag aat 552

Asp Ile Ser Ser Glu Phe Lys Tyr Asn Lys Pro Ala Phe Leu Lys Asn

130

135

140

gcc aga cag tgg aca gag aag cat gca aga cag aaa caa aag gct gat 600

Ala Arg Gln Trp Thr Glu Lys His Ala Arg Gln Lys Gln Lys Ala Asp

145

150

155

gag gaa gag atg ctt gat aat cta cca gag gct ggt gac tcc aga gta 648

Glu Glu Glu Met Leu Asp Asn Leu Pro Glu Ala Gly Asp Ser Arg Val

160

165

170

cac aac tca aca cag aaa agg aag gcc agt cag cta gta ggc ata gaa 696

His Asn Ser Thr Gln Lys Arg Lys Ala Ser Gln Leu Val Gly Ile Glu

175

180

185

190

aag aaa ttt cat cct gat gtt tag gggacttgct ctggttcac ttagttaatg 750

Lys Lys Phe His Pro Asp Val

195

tggtctttgc caaggtgatc taagttgcct accttgaatt tttttttaaa tatatttgat 810

4 / 3 4

gacataattt ttgtgtagtt tatttatctt gtacatatgt attttgaaat cttttaaaccc 870

tgaaaaataa atagtcattt aatgttgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 928

<210> 2

<211> 197

<212> PRT

<213> Homo sapiens

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20 25 30

Asp Leu Arg Ala Gln Ile Leu Gly Gly Ala Asn Thr Pro Tyr Glu Lys

35 40 45

Gly Val Phe Lys Leu Glu Val Ile Ile Pro Glu Arg Tyr Pro Phe Glu

5 / 3 4

50

55

60

Pro Pro Gln Ile Arg Phe Leu Thr Pro Ile Tyr His Pro Asn Ile Asp

65

70

75

80

Ser Ala Gly Arg Ile Cys Leu Asp Val Leu Lys Leu Pro Pro Lys Gly

85

90

95

Ala Trp Arg Pro Ser Leu Asn Ile Ala Thr Val Leu Thr Ser Ile Gln

100

105

110

Leu Leu Met Ser Glu Pro Asn Pro Asp Asp Pro Leu Met Ala Asp Ile

115

120

125

Ser Ser Glu Phe Lys Tyr Asn Lys Pro Ala Phe Leu Lys Asn Ala Arg

130

135

140

Gln Trp Thr Glu Lys His Ala Arg Gln Lys Gln Lys Ala Asp Glu Glu

145

150

155

160

6 / 3 4

Glu Met Leu Asp Asn Leu Pro Glu Ala Gly Asp Ser Arg Val His Asn

165

170

175

Ser Thr Gln Lys Arg Lys Ala Ser Gln Leu Val Gly Ile Glu Lys Lys

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Phe His Pro Asp Val

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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (53).. (1189)

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58

Met Ser

7 / 3 4

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ggt gcg ggg gtg gcg gct ggg acg cgg ccc ccc agc tcg ccg acc ceg 106

Gly Ala Gly Val Ala Ala Gly Thr Arg Pro Pro Ser Ser Pro Thr Pro

5

10

15

ggc tct cgg cgc cgg cgc cag cgc ccc tct gtg ggc gtc cag tcc ttg 154

Gly Ser Arg Arg Arg Arg Gln Arg Pro Ser Val Gly Val Gln Ser Leu

20

25

30

agg ccg cag agc ccg cag ctc agg cag agc gac ccg cag aaa cgg aac 202

Arg Pro Gln Ser Pro Gln Leu Arg Gln Ser Asp Pro Gln Lys Arg Asn

35

40

45

50

ctg gac ctg gag aaa agc ctg cag ttc ctg cag cag cag cac tcg gag 250

Leu Asp Leu Glu Lys Ser Leu Gln Phe Leu Gln Gln Gln His Ser Glu

55

60

65

atg ctg gcc aag ctc cat gag gag atc gag cat ctg aag cgg gaa aac 298

Met Leu Ala Lys Leu His Glu Glu Ile Glu His Leu Lys Arg Glu Asn

70

75

80

aag gat ctc cat tac aag ctc ata atg aat cag aca tca cag aag aaa 346

Lys Asp Leu His Tyr Lys Leu Ile Met Asn Gln Thr Ser Gln Lys Lys

85

90

95

8 / 3 4

gat ggc ccc tca gga aac cac ctt tcc agg gcc tct gct ccc ttg ggc 394

Asp Gly Pro Ser Gly Asn His Leu Ser Arg Ala Ser Ala Pro Leu Gly

100

105

110

gct cgc tgg gtc tgc atc aac gga gtg tgg gta gag ccg gga gga ccc 442

Ala Arg Trp Val Cys Ile Asn Gly Val Trp Val Glu Pro Gly Gly Pro

115

120

125

130

agc cct gcc agg ctg aag gag ggc tcc tca cgg aca cac agg cca gga 490

Ser Pro Ala Arg Leu Lys Glu Gly Ser Ser Arg Thr His Arg Pro Gly

135

140

145

ggc aag cgt ggg cgt ctt gcg ggc ggt agc gcc gac act gtg cgc tct 538

Gly Lys Arg Gly Arg Leu Ala Gly Gly Ser Ala Asp Thr Val Arg Ser

150

155

160

cct gca gac agc ctc tcc atg tca agc ttc cag tct gtc aag tcc atc 586

Pro Ala Asp Ser Leu Ser Met Ser Ser Phe Gln Ser Val Lys Ser Ile

165

170

175

tct aat tca ggc aag gcc agg ccc cag ccc ggc tcc ttc aac aag caa 634

Ser Asn Ser Gly Lys Ala Arg Pro Gln Pro Gly Ser Phe Asn Lys Gln

180

185

190

gat tca aaa gct gac gtc tcc cag aag gcg gac ctg gaa gag gag ccc 682

Asp Ser Lys Ala Asp Val Ser Gln Lys Ala Asp Leu Glu Glu Glu Pro

9 / 3 4

195	200	205	210	
cta ctt cac aac agc aag ctg gac aaa gtt cct ggg gta caa ggg cag				730
Leu Leu His Asn Ser Lys Leu Asp Lys Val Pro Gly Val Gln Gly Gln				
	215	220	225	
gcc aga aag gag aaa gca gag gcc tct aat gca gga gct gcc tgt atg				778
Ala Arg Lys Glu Lys Ala Glu Ala Ser Asn Ala Gly Ala Ala Cys Met				
	230	235	240	
ggg aac agc cag cac cag ggc agg cag atg ggg gcg ggg gca cac ccc				826
Gly Asn Ser Gln His Gln Gly Arg Gln Met Gly Ala Gly Ala His Pro				
	245	250	255	
cca atg atc ctg ccc ctt ccc ctg cga aag ccc acc aca ctt agg cag				874
Pro Met Ile Leu Pro Leu Pro Leu Arg Lys Pro Thr Thr Leu Arg Gln				
	260	265	270	
tgc gaa gtg ctc atc cgc gag ctg tgg aat acc aac ctc ctg cag acc				922
Cys Glu Val Leu Ile Arg Glu Leu Trp Asn Thr Asn Leu Leu Gln Thr				
275	280	285	290	
caa gag ctg cgg cac ctc aag tcc ctc ctg gaa ggg agc cag agg ccc				970
Gln Glu Leu Arg His Leu Lys Ser Leu Leu Glu Gly Ser Gln Arg Pro				
	295	300	305	

10 / 34

cag gca gcc ccg gag gaa gct agc ttt ccc agg gac caa gaa gcc acg 1018

Gln Ala Ala Pro Glu Glu Ala Ser Phe Pro Arg Asp Gln Glu Ala Thr

310

315

320

cat ttc ccc aag gtc tcc acc aag agc ctc tcc aag aaa tgc ctg agc 1066

His Phe Pro Lys Val Ser Thr Lys Ser Leu Ser Lys Lys Cys Leu Ser

325

330

335

cca cct gtg gcg gag cgt gcc atc ctg ccc gca ctg aag cag acc ccg 1114

Pro Pro Val Ala Glu Arg Ala Ile Leu Pro Ala Leu Lys Gln Thr Pro

340

345

350

aag aac aac ttt gcc gag agg cag aag agg ctg cag gca atg cag aaa 1162

Lys Asn Asn Phe Ala Glu Arg Gln Lys Arg Leu Gln Ala Met Gln Lys

355

360

365

370

cgg cgc ctg cat cgc tca gtg ctt tga gccaccccaa tctggtcagt 1209

Arg Arg Leu His Arg Ser Val Leu

375

gccaggccca ccaacctgca gctggagact ggctctctat agcatttcct gatacttcg 1269

ctacttttag gcctggctaa attccaagac agataacact caagatagat aaagtacttg 1329

atctccaaac tgacaaactg tttattttct agctgttatt ttgctatttg gcatttacat 1389

11/34

aaaagcacac gatgaagcag gtatgcctt acctgttgaa actgaaaata aagcttgttt 1449

atttcacaaa aaaaaaaaaa aaa 1472

<210> 4

<211> 378

<212> PRT

<213> Homo sapiens

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Thr Pro Gly Ser Arg Arg Arg Arg Gln Arg Pro Ser Val Gly Val Gln

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Ser Leu Arg Pro Gln Ser Pro Gln Leu Arg Gln Ser Asp Pro Gln Lys

35 40 45

Arg Asn Leu Asp Leu Glu Lys Ser Leu Gln Phe Leu Gln Gln Gln His

50 55 60

1 2 / 3 4

Ser Glu Met Leu Ala Lys Leu His Glu Glu Ile Glu His Leu Lys Arg

65

70

75

80

Glu Asn Lys Asp Leu His Tyr Lys Leu Ile Met Asn Gln Thr Ser Gln

85

90

95

Lys Lys Asp Gly Pro Ser Gly Asn His Leu Ser Arg Ala Ser Ala Pro

100

105

110

Leu Gly Ala Arg Trp Val Cys Ile Asn Gly Val Trp Val Glu Pro Gly

115

120

125

Gly Pro Ser Pro Ala Arg Leu Lys Glu Gly Ser Ser Arg Thr His Arg

130

135

140

Pro Gly Gly Lys Arg Gly Arg Leu Ala Gly Gly Ser Ala Asp Thr Val

145

150

155

160

1 3 / 3 4

Arg Ser Pro Ala Asp Ser Leu Ser Met Ser Ser Phe Gln Ser Val Lys

165

170

175

Ser Ile Ser Asn Ser Gly Lys Ala Arg Pro Gln Pro Gly Ser Phe Asn

180

185

190

Lys Gln Asp Ser Lys Ala Asp Val Ser Gln Lys Ala Asp Leu Glu Glu

195

200

205

Glu Pro Leu Leu His Asn Ser Lys Leu Asp Lys Val Pro Gly Val Gln

210

215

220

Gly Gln Ala Arg Lys Glu Lys Ala Glu Ala Ser Asn Ala Gly Ala Ala

225

230

235

240

Cys Met Gly Asn Ser Gln His Gln Gly Arg Gln Met Gly Ala Gly Ala

245

250

255

His Pro Pro Met Ile Leu Pro Leu Pro Leu Arg Lys Pro Thr Thr Leu

260

265

270

1 4 / 3 4

Arg Gln Cys Glu Val Leu Ile Arg Glu Leu Trp Asn Thr Asn Leu Leu

275

280

285

Gln Thr Gln Glu Leu Arg His Leu Lys Ser Leu Leu Glu Gly Ser Gln

290

295

300

Arg Pro Gln Ala Ala Pro Glu Glu Ala Ser Phe Pro Arg Asp Gln Glu

305

310

315

320

Ala Thr His Phe Pro Lys Val Ser Thr Lys Ser Leu Ser Lys Lys Cys

325

330

335

Leu Ser Pro Pro Val Ala Glu Arg Ala Ile Leu Pro Ala Leu Lys Gln

340

345

350

Thr Pro Lys Asn Asn Phe Ala Glu Arg Gln Lys Arg Leu Gln Ala Met

355

360

365

1 5 / 3 4

Gln Lys Arg Arg Leu His Arg Ser Val Leu

370

375

<210> 5

<211> 1315

<212> DNA

<213> Homo sapiens

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cccgcctccc ctccgcgtga gctctgggat ggtccgcgcc gggagcgcgc gcgaggcttg 180

aagcgcgggt gaagcgcgca ggtcggagtg acagctgcgc tgccggcccg gctgcggtca 240

gcaacgcgcc atg gac gca gag ctg gca gag gtg cgc gcc ttg caa gct 289

Met Asp Ala Glu Leu Ala Glu Val Arg Ala Leu Gln Ala

1 6 / 3 4

gag atc gcg gcc ctg cgg cga gcg tgt gag gac cca ccg gcg ccc tgg 337

Glu Ile Ala Ala Leu Arg Arg Ala Cys Glu Asp Pro Pro Ala Pro Trp

15

20

25

gaa gag aag tcc cga gtc caa aaa tct ttt caa gcc ata cac caa ttc 385

Glu Glu Lys Ser Arg Val Gln Lys Ser Phe Gln Ala Ile His Gln Phe

30

35

40

45

aat ttg gaa gga tgg aag tct tca aaa gat ctg aaa aat cag ctt gga 433

Asn Leu Glu Gly Trp Lys Ser Ser Lys Asp Leu Lys Asn Gln Leu Gly

50

55

60

cat tta gaa tca gaa ctt tca ttt cta agt acg ctt act ggc atc aat 481

His Leu Glu Ser Glu Leu Ser Phe Leu Ser Thr Leu Thr Gly Ile Asn

65

70

75

ata aga aat cac tcc aag cag aca gaa gac cta aca agc act gag atg 529

Ile Arg Asn His Ser Lys Gln Thr Glu Asp Leu Thr Ser Thr Glu Met

80

85

90

aca gaa aag agt att aga aaa gtt cta cag aga cac aga tta tca gga 577

Thr Glu Lys Ser Ile Arg Lys Val Leu Gln Arg His Arg Leu Ser Gly

95

100

105

aat tgc cac atg gtt aca ttt caa ctt gaa ttt cag att ctg gaa att 625

17 / 34

Asn Cys His Met Val Thr Phe Gln Leu Glu Phe Gln Ile Leu Glu Ile

110 115 120 125

cag aat aag gag aga tta tct tct gct gtt act gac ctc aac ata ata 673

Gln Asn Lys Glu Arg Leu Ser Ser Ala Val Thr Asp Leu Asn Ile Ile

130 135 140

atg gag ccc aca gaa tgc tca gaa tta agt gaa ttt gtg tct aga gca 721

Met Glu Pro Thr Glu Cys Ser Glu Leu Ser Glu Phe Val Ser Arg Ala

145 150 155

gaa gag aga aaa gat ctg ttc atg ttt ttc cga agc ctg cat ttt ttt 769

Glu Glu Arg Lys Asp Leu Phe Met Phe Phe Arg Ser Leu His Phe Phe

160 165 170

gtg gag tgg ttt gaa tat cgt aag cgc acg ttt aaa cat ctc aag gaa 817

Val Glu Trp Phe Glu Tyr Arg Lys Arg Thr Phe Lys His Leu Lys Glu

175 180 185

aag tac cca gat gcc gtg tac ctc tcg gag ggg ccc tcc tcc tgc tcc 865

Lys Tyr Pro Asp Ala Val Tyr Leu Ser Glu Gly Pro Ser Ser Cys Ser

190 195 200 205

atg ggg atc cgc agc gcc agc cgg cca ggg ttt gaa tta gtc att gtt 913

Met Gly Ile Arg Ser Ala Ser Arg Pro Gly Phe Glu Leu Val Ile Val

210 215 220

1 8 / 3 4

tgg agg ata caa ata gat gaa gat ggg aag gtt ttt cca aag ctg gat 961

Trp Arg Ile Gln Ile Asp Glu Asp Gly Lys Val Phe Pro Lys Leu Asp

225

230

235

ctt ctc acc aaa gtc cca cag cga gcc ctg gag ctg gac aag aac aga 1009

Leu Leu Thr Lys Val Pro Gln Arg Ala Leu Glu Leu Asp Lys Asn Arg

240

245

250

gcc ata gaa act gct cct ctc agc ttc cga acc ctg gta gga ctg ctt 1057

Ala Ile Glu Thr Ala Pro Leu Ser Phe Arg Thr Leu Val Gly Leu Leu

255

260

265

gga atc gaa gct gct ctg gaa agc ctg ata aaa tcg ctt tgt gca gag 1105

Gly Ile Glu Ala Ala Leu Glu Ser Leu Ile Lys Ser Leu Cys Ala Glu

270

275

280

285

gag aac aac tagttccaaa acagtgaacg tggaggatga agatgctgcg 1154

Glu Asn Asn

tggaggaaca tgcaatttta ttcaatataa acatttgcta ttttctgctt agaaaccaca 1214

ccctgaagac gtgctgtcta tgcagttatg gcacattata tggaaactct catgacatga 1274

aaaataaata caactagtta agtataaaat gccaaaaaa a 1315

19/34

<210> 6

<211> 288

<212> PRT

<213> Homo sapiens

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Ala Leu Arg Arg Ala Cys Glu Asp Pro Pro Ala Pro Trp Glu Glu Lys

20

25

30

Ser Arg Val Gln Lys Ser Phe Gln Ala Ile His Gln Phe Asn Leu Glu

35

40

45

Gly Trp Lys Ser Ser Lys Asp Leu Lys Asn Gln Leu Gly His Leu Glu

50

55

60

Ser Glu Leu Ser Phe Leu Ser Thr Leu Thr Gly Ile Asn Ile Arg Asn

65	70	75	80
His Ser Lys Gln Thr Glu Asp Leu Thr Ser Thr Glu Met Thr Glu Lys			
	85	90	95
Ser Ile Arg Lys Val Leu Gln Arg His Arg Leu Ser Gly Asn Cys His			
	100	105	110
Met Val Thr Phe Gln Leu Glu Phe Gln Ile Leu Glu Ile Gln Asn Lys			
	115	120	125
Glu Arg Leu Ser Ser Ala Val Thr Asp Leu Asn Ile Ile Met Glu Pro			
	130	135	140
Thr Glu Cys Ser Glu Leu Ser Glu Phe Val Ser Arg Ala Glu Glu Arg			
	145	150	155
Lys Asp Leu Phe Met Phe Phe Arg Ser Leu His Phe Phe Val Glu Trp			
	165	170	175

21 / 34

Phe Glu Tyr Arg Lys Arg Thr Phe Lys His Leu Lys Glu Lys Tyr Pro

180

185

190

Asp Ala Val Tyr Leu Ser Glu Gly Pro Ser Ser Cys Ser Met Gly Ile

195

200

205

Arg Ser Ala Ser Arg Pro Gly Phe Glu Leu Val Ile Val Trp Arg Ile

210

215

220

Gln Ile Asp Glu Asp Gly Lys Val Phe Pro Lys Leu Asp Leu Leu Thr

225

230

235

240

Lys Val Pro Gln Arg Ala Leu Glu Leu Asp Lys Asn Arg Ala Ile Glu

245

250

255

Thr Ala Pro Leu Ser Phe Arg Thr Leu Val Gly Leu Leu Gly Ile Glu

260

265

270

Ala Ala Leu Glu Ser Leu Ile Lys Ser Leu Cys Ala Glu Glu Asn Asn

2 2 / 3 4

275

280

285

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<211> 20

<212> DNA

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<223> Artificially synthesis primer for RT-PCR

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20

<210> 8

<211> 23

<212> DNA

<213> Artificial

<220>

<223> Artificially synthesis primer for RT-PCR

<400> 8

ggttgagcac aggggtacttt att

23

2 3 / 3 4

<210> 9

<211> 23

<212> DNA

<213> Artificial

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<223> Artificially synthesis primer for RT-PCR

<400> 9

caaataattag gtggagccaa cac

23

<210> 10

<211> 23

<212> DNA

<213> Artificial

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<223> Artificially synthesis primer for RT-PCR

<400> 10

tagatcacct tggcaaagaa cac

23

<210> 11

2 4 / 3 4

<211> 20

<212> DNA

<213> Artificial

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<223> Artificially synthesis primer for RT-PCR

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<210> 12

<211> 23

<212> DNA

<213> Artificial

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<223> Artificially synthesis primer for RT-PCR

<400> 12

tcagtttcaa caggtaaggc gat

23

<210> 13

<211> 23

<212> DNA

2 5 / 3 4

<213> Artificial

<220>

<223> Artificially synthesis primer for RT-PCR

<400> 13

agagccatag aaactgctcc tct

23

<210> 14

<211> 23

<212> DNA

<213> Artificial

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<223> Artificially synthesis primer for RT-PCR

<400> 14

cataactgca tagacagcac gtc

23

<210> 15

<211> 20

<212> DNA

<213> Artificial

26 / 34

<220>

<223> Artificially synthesis primer for RT-PCR

<400> 15

gggaagagaa gtcccgagtc

20

<210> 16

<211> 24

<212> DNA

<213> Artificial

<220>

<223> Artificially synthesis primer for RT-PCR

<400> 16

tccttattct gaatttccag aatc

24

<210> 17

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Artificially synthesis primer for 5' RACE

27 / 34

<400> 17

caagcagtcc taccagggtt cggaagctga

30

<210> 18

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Artificially synthesis primer for Nested PCR

<400> 18

ccagggttcg gaagctgaga ggagcagttt

30

<210> 19

<211> 30

<212> DNA

<213> Artificial

<220>

<223> Artificially synthesis primer for PCR

<400> 19

28 / 34

ccggaattca tgcagagagc ttcacgtctg

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<210> 20

<211> 33

<212> DNA

<213> Artificial

<220>

<223> Artificially synthesis primer for PCR

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<211> 30

<212> DNA

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<223> Artificially synthesis primer for PCR

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29 / 34

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<211> 35

<212> DNA

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<223> Artificially synthesis primer for PCR

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<210> 24

30 / 34

<211> 30

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<223> Artificially synthesis primer for PCR

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30

<210> 25

<211> 51

<212> DNA

<213> Artificial

<220>

<223> Artificially synthesis oligonucleotides for siRNA

<400> 25

caccgaagca gcacgacttc ttcttcaaga gagaagaagt cgtgctgctt c

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<210> 26

<211> 51

<212> DNA

3 1 / 3 4

<213> Artificial

<220>

<223> Artificially synthesis oligonucleotide for siRNA

<400> 26

aaaagaagca gcacgacttc ttctctcttg aagaagaagt cgtgctgctt c

51

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<211> 18

<212> DNA

<213> Artificial

<220>

<223> target sequence for siRNA

<400> 27

gaagcagcac gacttctt

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<210> 28

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<213> Artificial

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<220>

<223> target sequence for siRNA

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catcgcaact gtgttgacc

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<210> 30

<211> 19

<212> DNA

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<223> target sequence for siRNA

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<400> 30

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<210> 31

<211> 19

<212> DNA

<213> Artificial

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<223> target sequence for siRNA

<400> 31

gcttccagtc tgtcaagtc

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<210> 32

<211> 19

<212> DNA

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<223> target sequence for siRNA

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19

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19

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gtacgcttac tggcatcaa

19